## In the Claims

We claim:

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- 1. A DHCP efflux protein, which is specific for 4,5-dihydroxy-2-cyclopenten-1-one 5 (DHCP).
  - 2. The protein of Claim 1, which is a transmembrane protein that forms a cytoplasmic channel specific for efflux transport of DHCP.
    - 3. The protein of Claim 1, which confers resistance to DHCP.
    - 4. The protein of Claim 1, which protein is from *E. coli*.
  - 5. The protein of Claim 1, which protein does not confer cross-resistance to the any of the following antibiotics: chloramphenicol, spectinomycin and tetracycline.
  - 6. The protein of Claim 1, which protein possesses 13 predicted transmembrane-spanning  $\alpha$ -helices.
    - 7. A gene encoding *dep*, the DHCP efflux protein.
      - 8. The dep gene of Claim 7, wherein the dep gene is from E. coli.
- 9. The gene of Claim 7, wherein said gene confers resistance to DHCP or a functionally equivalent compound when present in multiple copies in a bacterial cell.

- 10. A plasmid comprising the *dep* gene, which plasmid confers expression of multiple copies of the *dep* gene in bacteria cells that have been transformed with said plasmid.
- 11. The plasmid of Claim 10, which plasmid confers resistance to DHCP and does not confer cross-resistance to any of the following antibiotics: chloramphenicol, spectinomycin and tetracycline.
  - 12. Bacteria cells containing multiple copies of the plasmid of Claim 10.
  - 13. The bacteria cells of Claim 12, which bacteria cells are resistant to DHCP.
  - 14. A method which uses the gene of Claim 7 to identify a compound which inhibits efflux activity responsible for resistance to DHCP or a functionally equivalent compound.